

1/16

FIGURE 1 A

5'
AGGTTCTGGGTGGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAGA
TGGATGCAGAATTCCGACATGACTCAGGATATGAAGTTCATCATCAAAAA
TTGGTGTCTTTGCAGAAGATGTGGGTCAAACAAAGGTGCAATCATTGG
ACTCATGGTGGGCGGTGTTGTCATAGCGACAGTATCGTCATCACCTTGG
TGATGCTGAAGAAGAAACAGTACACATCCATTCATCATGGTGTGGTGGAG
GTAGGTAAACTTGACTGCATGTTTCCAAGTGGGAATTAAGACTATGAGAG
AATTAGGCTTAGCTTTTTGCTAAGAACTAGCTAAGTATCTCTTTAAAAA
ACCAATCAGTGTGCTTCCATGATGCTTGGGTACAGTTGTTCTTTCTTGT
TTTGGTTTTATTTCATTGCAACTTACCGTGAATATTCTGCTCAAGGTATT
GAGAGTGTGTGTTGTTATCTTAACTTACAATTTGTGTTGAAGTTATCAAA
TAATACAAATGATAATGCATGACTTTAAAAAAGCAT

FIGURE 1 B

MDAEFRHDSGYEVHHQKLVFFAEDVG
SNKGAIIGLMVGGYVIATVIVITLVM
LKKKQYTSIHGVEVGKLD CMFPSG
N

(ii)

MQNSDMTQDMKFIIKNWYVK

(iii)

MQNSDMTQDMKFIIKNWCSLQKM WV
QTKVQSLDSWWAVLS

2/16

FIGURE 1C

5'
 AGGTTCTGGGTGGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAG
 →
 ATGGATGCAGAATTCCGACATGACTCAGGATATGAAGTTCATCATCAAA
 AATTGGTACGTAAAATAATTTACCTCTTTCCACTACTGTTTGTCTTGCC
 AAATGACCTATTA ACTCTGGTTCATCCTGTGCTAGAAATCAAATTAAGG
 *
 AAAAGATAAAAATACAATGCTTGCCTATAGGATTACCATGAAAACATGA
 AGAAATAAATAGGCTAG
 3'

FIGURE 1 D

MDAEFRHDSGYEVHHQK①VRKIIY①F
PLLFY①PNDLLT①VHPVLEIKLRKR

FIGURE 1E

5'
TTGATAATTAAATGTTATAGCATGGACACTGACATTTACATTTTTTACTT
 ATGTTTTTGGTTTTTAAATGACTCTGCATTTTGTTTTAAGCTTCAAATTA
TTATTGAATAATGAAATTCATCAGAACAATTAGTGTTAAGAATCATATA
GCAATTTATAGAAAAGGAAGAGTTCGTAGGTTATAAATTCTGTTAGTTGC
 TAAGAAGCATTTTTTAAAATTATGTACTATAGCTCTTTATTCA¹GCAGACGA
 ACCAATTACAATCTGTGTA ACTAGAACACTTGATCAAAATTATATAATTT
 TTACAACGCTTCACTGCATAGATACATGAACATAATTTATTTTGAATTGG
 AACAAAGCCCCAAAGTAGCAGTTTTGTTCTACCAGGTAATTAATGCTCAT
TTTTAAAGGCTTTTATTATTATTTCTGAAGTAATGAGTGACATGGAAAA
 AGACACATAATAGGCTAAACAATAAGCCCGTAAGCCAAGCCAACATATTC

3/16

CAGGAACAAATCCTTGCCAACCTCTCAACCAGGATTAACTTCTGCTTTT
 CCCCCATTTTCAAAAATTATAGCATGTATTTAAATGCAGCAGAAGCCTTA
 CTTTCAGGGTCCCTTACCCTTTTCATTCTTTTTGTTCAAATAGGTAGT
 AATTGAAGGTTTAAATATAGGGTATCATTTTTCTTTAAGAGTCATTTATC
 AATTTTCTTCTAACTTCAGGCCTAGAAAGAAGTTTTGGGTAGGCTTTGTC
 TTACAGTGTTATTATTTATGAGTAAACTAATTGGTTGTCCTGCATACTT
 TAATTATGATGTAATAC

FIGURE 1F

5' ^①→
 GTGTTCTTTGCAGAAGATGTGGGTTCAAACAAAGGTGCAATCATTGGACT
^②→ ^{S₁*}
 CATGGTGGGCGGTGTTGTCATAGCGACAGTGATCGTCATCACCTTGGTGA
 TGCTGAAGAAGAAACAGTACACATCCATTCATCATGGTGTGGTGGAGGTA
^{S₂*}
 GGTA^③ACTTGACTGCATGTTTCCAAGTGGGAATTAAGACTATGAGAGAAT
 TAGGCTTAGCTTTTTGCTAAGAACTAGCTAAGTATCTCTTTTAAAAACC
 AATCAGTGTGCTTCCATGATGCTTGGGTACAGTTGTTCTTTCTTGTTTT
 GGTTTTCATTCATTGCAACTTACCGTGAATATTCTGCTCAAGGTATTGAG
 AGTGTGTGTTGTTATCTTAACTTACAATTTGTGTTGAAGTTATCAAATAA
 TACAAATGATAATGCATGACTTTAAAAAGCAT

FIGURE 1G

(gi)

M V W Q T K V Q S L D S W W A V L S

(i)



M V G G V V I A T V I V I T L V M L K K K Q Y T S
 I H H G V V E V G K L D C M F P S G N

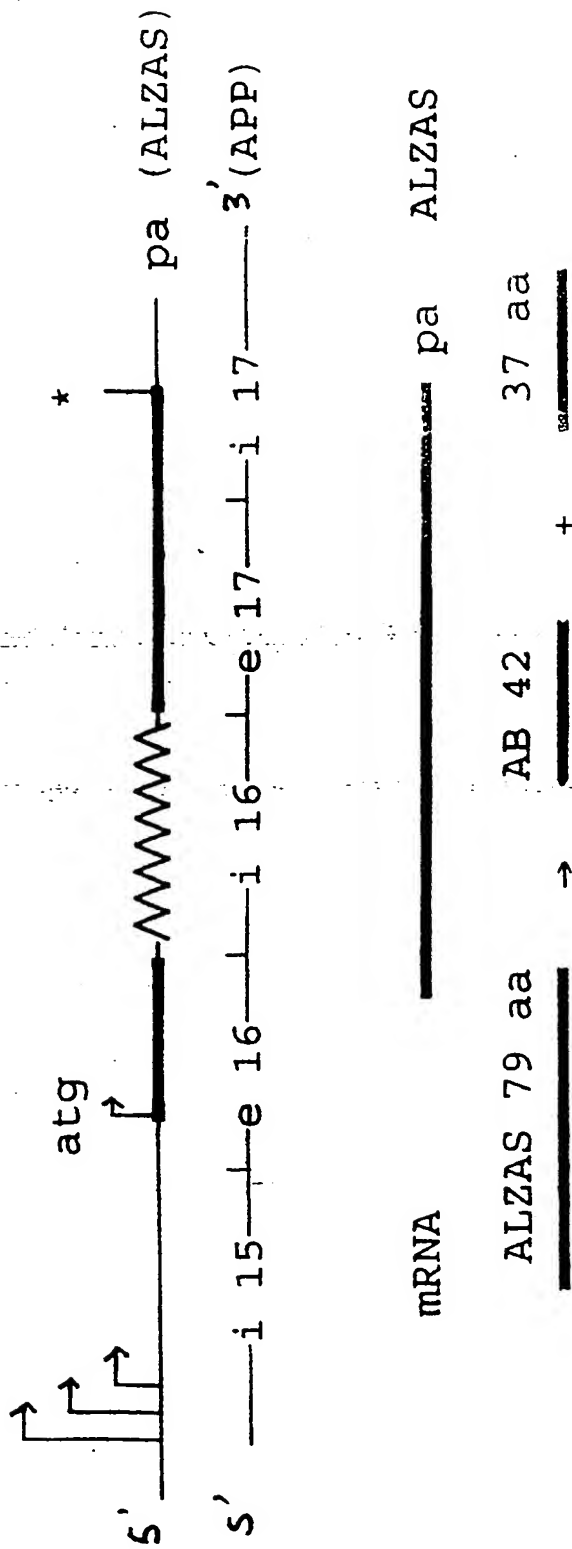
4/16

FIGURE 1H

5'
TATTTTATGTTTAAATCCAAATAAAGAGCAAGAATAAAGCAACATTTTCAGAT
TTTGGTTTCTGGAGACAATAGTTAGAAAGCATGAGTTATGATTGACTTAAAA
TTCTTGTTGCCTGTACTTCACTTTGAAATAACATTATGCTTTAAAAAGCAAT
ACACTGCTAAAGGTTAATTTGAATTCTGCAGAATTACTATAGCAAAAAGTAG
GTAACAAGATATCTTTTTTCTATTGTTTAACTCCTTTCTTTCAGAATGCCT
ATTCTGTGCATTAAAAGTGTCCCTCCAAGGAAATTAGGACATCTGCAGAGT
TGAAAAACACCTAAGTCTCAGTCACTTAGAGTCACACATCAGGGCTCAGAGT
GCTATGACTAGGAAAATGCTGACCTCCTTTCATTAGTATGATCGTTCCTTTC
CAGCTTTTGATAGATCCAAGCGCTATCTTCCCACCACTCACCAAATGTTCCA
CCTGTCAAAGGGTTTCAGGTCCTGCAGACTTCGGTTTTGACCTGTGGGGAA
AGTAGACTTCCTCGAACTGGGGAAGCCACATGTTGTACATCCTTCTATAAAC
TATGATTATCATTCTTAGTAGGAAAATATGTGATTCTTTTTTTTTTTTTTT
TTTTAAAGTAAGCATCAAATATTTGACCAACCAGTTGGGCAGAGAATATACT
GAAACTTTTTATATAACCTCATCCAAATGTCCCCTGCATTTAAGAAATGAAA
TTCTTCTAATTGCGTTTATAAATTGTAAATTATATTGCAATFAGAAATTAAA
ATTCTTTTTCTTAATTTGTTTTCAAGG

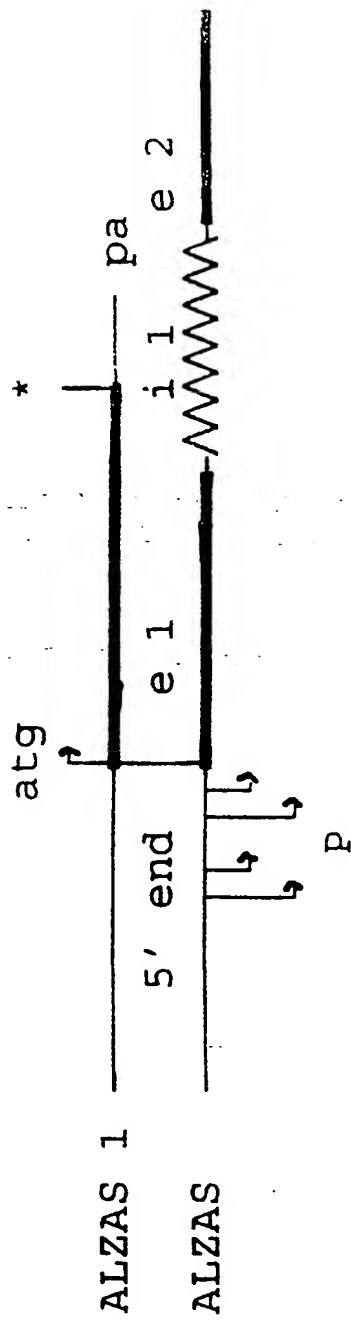
5/16

Fig 2 a



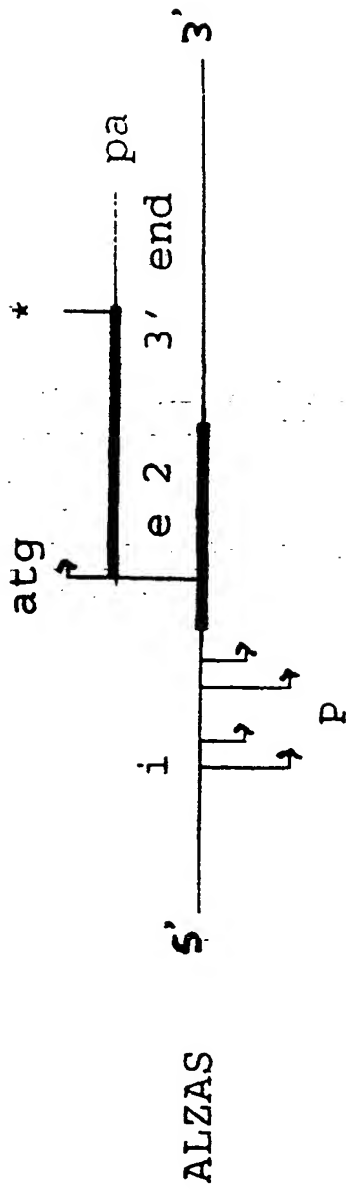
6/16

Fig 2 b



ALZAS 1 → 37 aa + 13 aa
 50 aa

Fig 2 c



ALZAS 2 → 7 aa + 36 aa
 43 aa

9/16

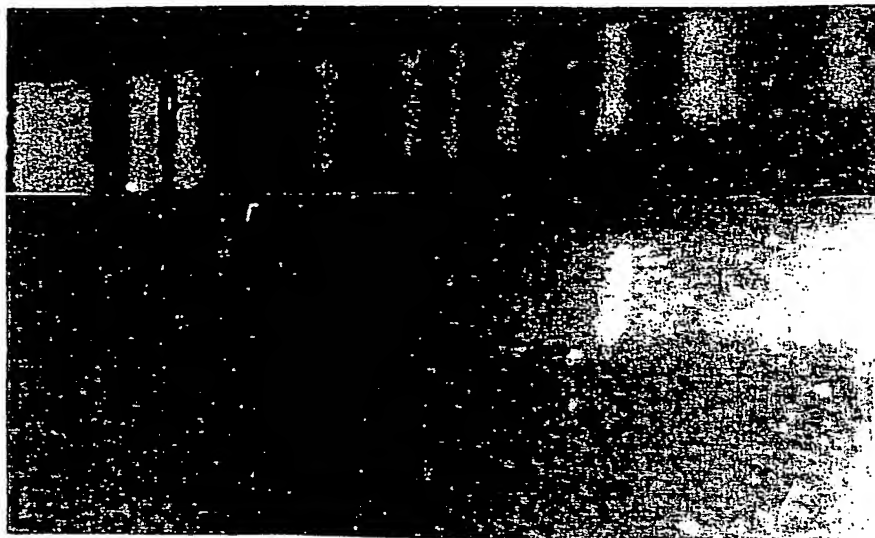
8/16

fig 3

9

8

7



-289-
bp

6

5

4

3

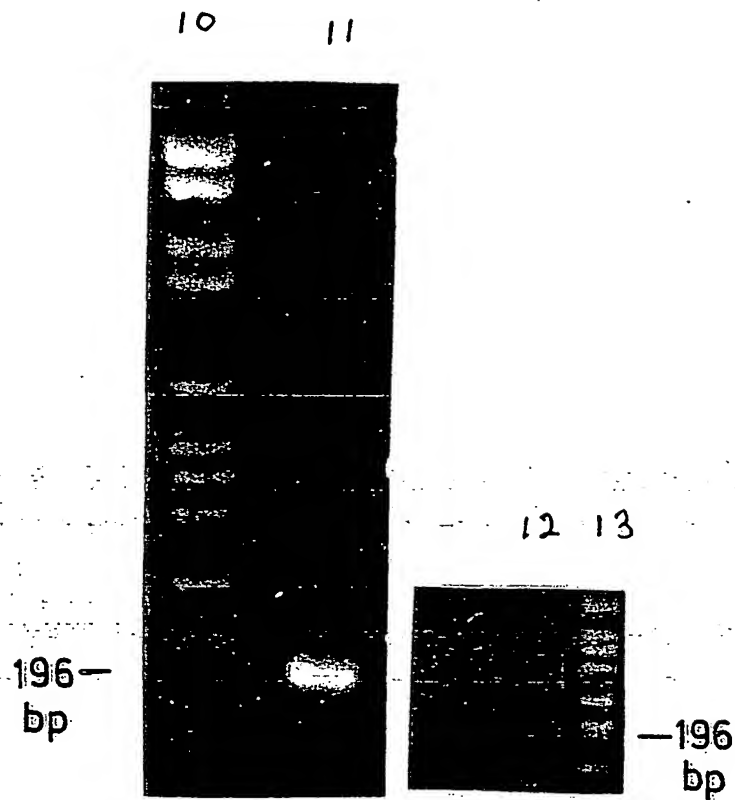
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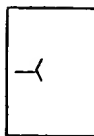
9/16

fig3cont.



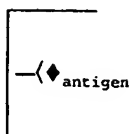
ELISA-test for ALZAS protein Fig 4a 10/16

(0)



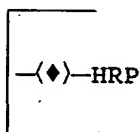
(0) Coat plates with anti-ALZASa IgG

(1)



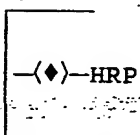
(1) React with antigen (ALZAS) in serum, urine, saliva, protein extracts etc.

(2)



(2) React with anti-ALZASb IgG conjugated with horse radish peroxidase

(3)



'OPD'
substr.

coloured
product

(3) React with substrate ortho-phosphate diamine or other suitable substrate; substrate is cleaved to give a colour reaction which is proportional to the amount of bound HRP-conjugated (second) antibody; measure concentration of colour in microplate reader.

ELISA-test for anti-ALZAS endogenous IgG

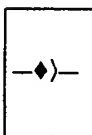
11/16
Fig 4b

(0)



(0) Coat plates with ALZASb epitope

(1)



(1) React with immunoglobulin G in sample

(2)



(2) React with anti-human Fc IgG conjugated with horse radish peroxidase

(3)

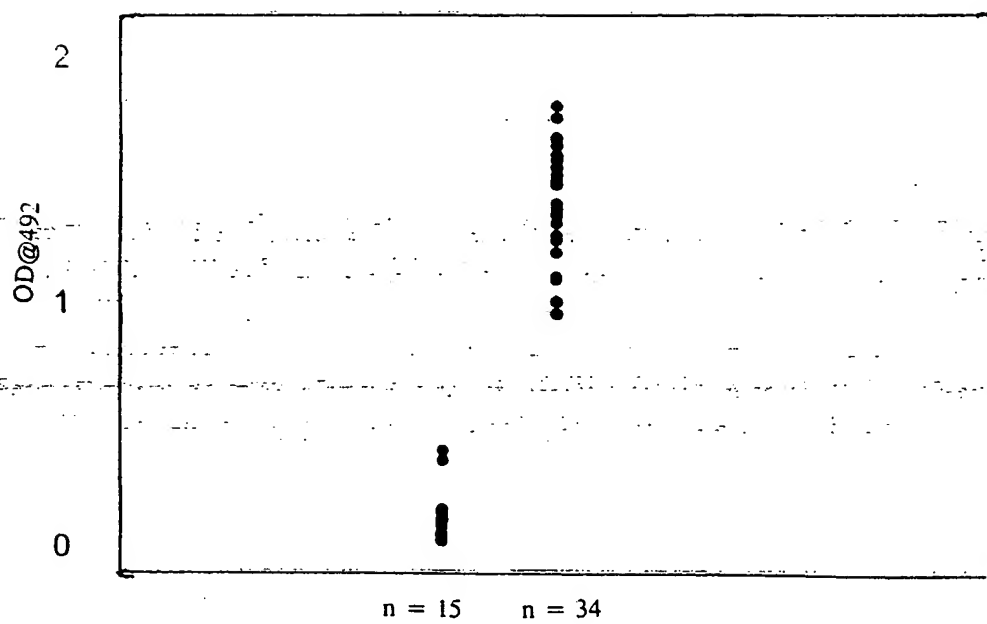


'OPD'
substr.
coloured
product

(3) React with substrate ortho-phosphate diamine or other suitable substrate; substrate is cleaved to give a colour reaction which is proportional to the amount of bound HRP-conjugated (second) antibody; measure concentration of colour in microplate reader.

12/16

fig. 4c



13/16

fig. 4D

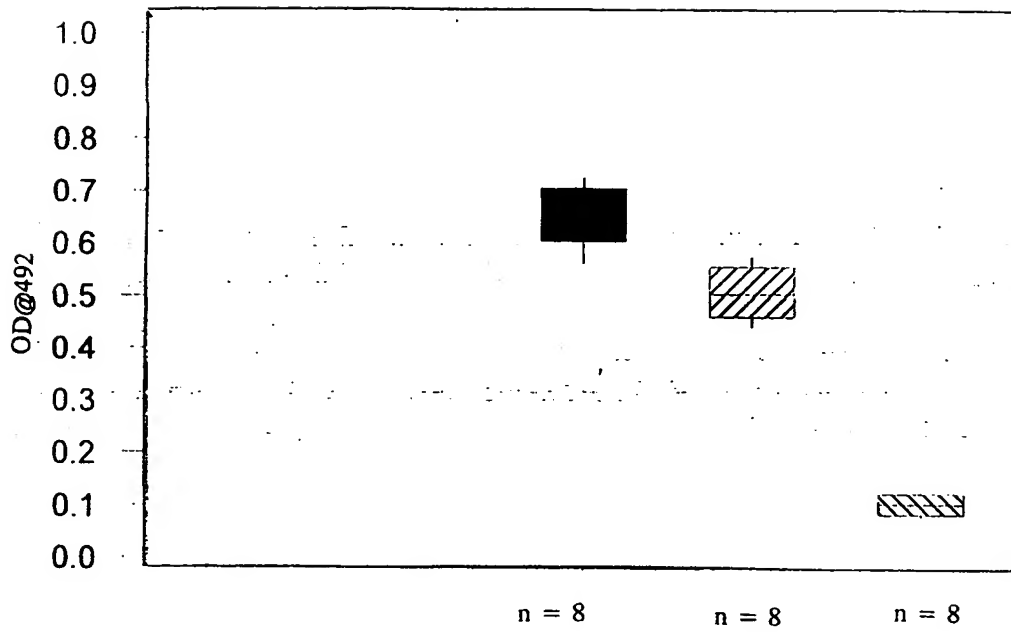
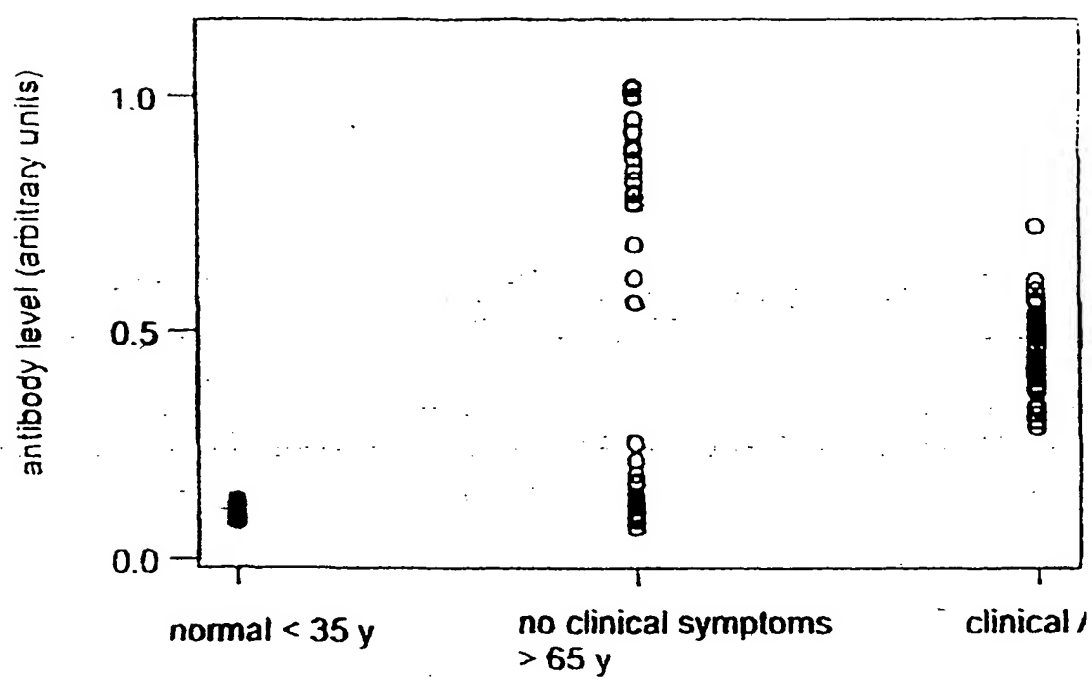


fig. 4 E



15/16

fig. 5



A



B



C

16/16

fig. 5D

